

Brightsite

Transforming industry

The Enabling Technologies for Digitalization

Proud partners

Sitech Services

TNO

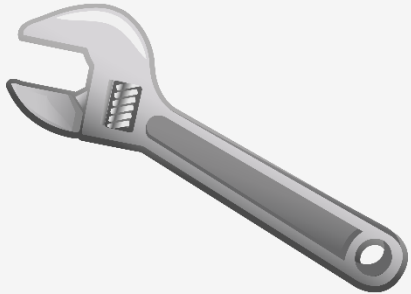
Maastricht University

Brightlands Chemelot campus

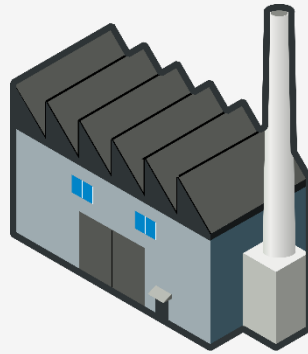


Problem Domains

Maintenance



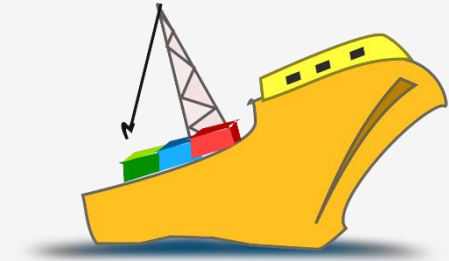
Production



Safety
Management

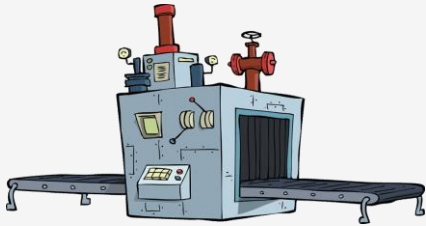


Supply Chain
Management



Development Aspects

Assets



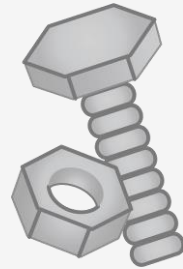
People



Feedstock



Energy



Spare Parts



Site

Enabling Technologies

Identified 11 enabling technologies:

Artificial Intelligence (AI)

Autonomous Robots (RO)

Extended Reality (XR)

Simulation (SIM)

Industrial Internet of Things (IIoT)

Big Data Analytics (BDA)

Horizontal and Vertical System Integration (HVI)

Cloud Computing (CC)

Additive Manufacturing (AM)

Cybersecurity (CS)

5G

Application: Predictive Maintenance



Catalyzing digital transformation to build the Refinery of the Future

Using IoT technology, Deloitte helped Texmark Chemicals digitally transform their refinery operation. Now, they save time and money using predictive maintenance.



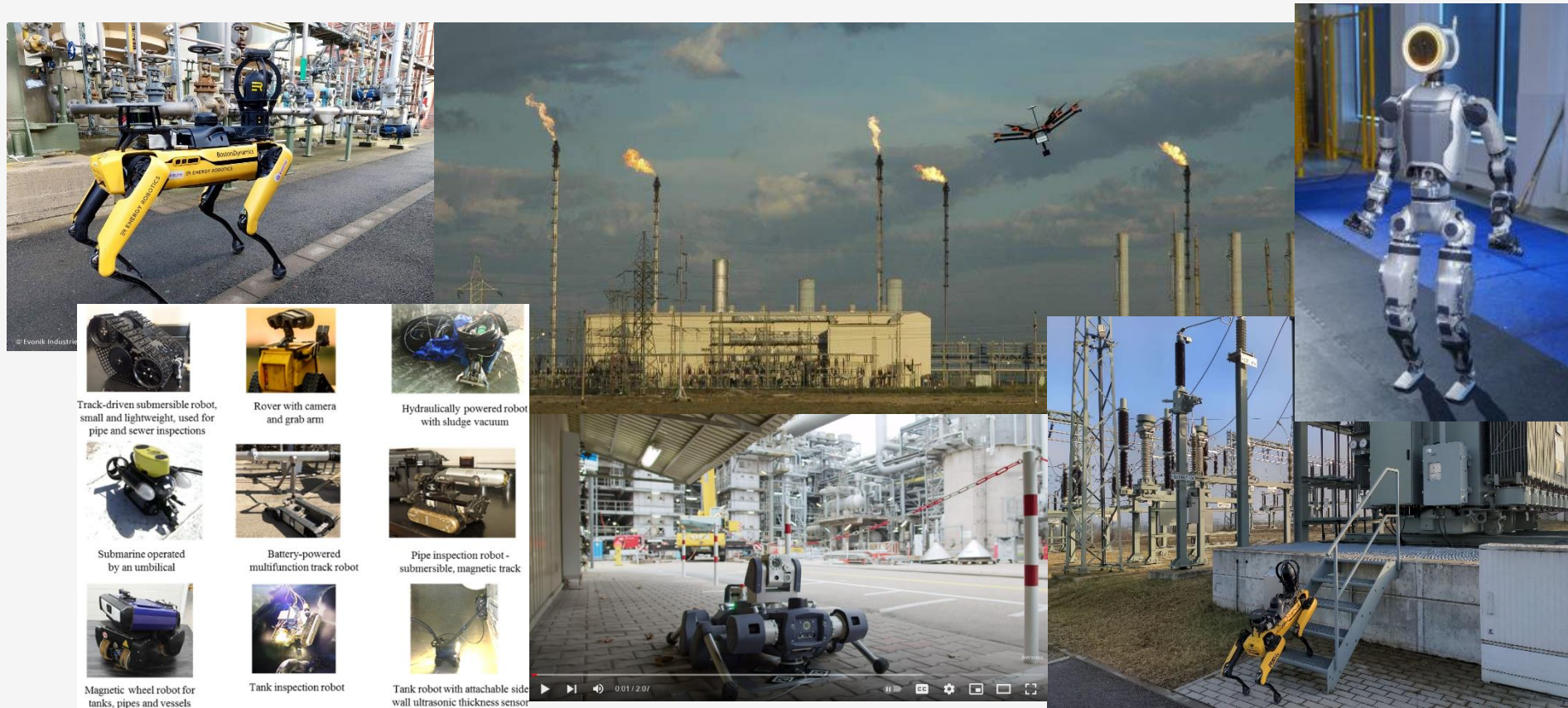
downtime. Predictive maintenance typically reduces machine downtime by 30 to 50 percent and increases machine life by 20 to 40 percent.

How Shell Scaled AI Predictive Maintenance to Monitor 10,000 Pieces of Equipment Globally

March 7, 2022

Internet of Things: Mapping the Value Beyond the Hype, suggested that manufacturers' savings from predictive maintenance could globally total between \$240 and \$630bn by 2025.

Application: Automated Asset Inspection



Application: Digitally Assisted Maintenance



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